

The Tech

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5 CENTS

Judcom Views Hazing Questions: Will Act Only If Trouble Serious

"Anything which could harm a person physically, hurt his scholarship, standing, or ruin MIT's reputation, will, upon formal complaint or receipt of definite information, be investigated and acted upon; and, if the nature of the case warrants it, the offender will be prosecuted." This statement by Bill Salmon '57, chairman of Judcomm, requires a bit of clarification and explanation, which can best be had by examining the function of his committee.

Since the East Campus hazing incident last week-end, many questions have been raised concerning Ins-

Dormitory Council, Baker House Pass Pro-Hazing Motions

Dormcon has adopted a resolution approving a reasonable amount of inter-house rivalry. The meaning of the resolution, as stated by its original sponsor, is:

"We agree that hazing as it has sometimes been practiced in the past should be outlawed; however, be it resolved that Dormcon is in favor of Freshman-Sophomore rivalry and activities solely within our houses and tend to (1) develop a competitive spirit, (2) integrate the Freshman into the spirit of our houses, (3) to develop what is often termed a "whole man." The resolution, unanimously passed, is similar to one passed by Stuart Schoenberg in the Baker Housecom meeting last week. The Dormcom move was supported at the latest Baker Housecom meeting. The Baker group defined rivalry as the house and generally approved the form of Freshman-Sophomore rivalry. Elections were held at this meeting also. Shell Rips is the new House Secretary; Ron Rosenberg and Paul Zeiger are Baker House Judicial Committee members; Paul Richardson is chairman of the Internal Facilities group and Stuart Schoenberg is its secretary.

Special elections were held at the recent East Campus House Committee meeting to fill offices vacated by resignations, graduations and the like. New Dorm Council representatives from East Campus are Conrad Revak and Marv Manheim; Scotty Patrick is chairman of the East Campus Judicial Committee, and Eugene Zoba and Bob [unclear] are members.

Prof. Blum Announces Publication of His Woodrow Wilson Study

Professor Blum announced yesterday that his book *Woodrow Wilson and the Politics of Morality* has been published. This book, which is written for the layman, portrays a decade of President Wilson's most important years. The theme of the book is to depict President Wilson as related to his time.

This short biography is one in a series of 50 books published under the title, "The Library of American Biography." Professor Blum was picked to write this book because of his extensive knowledge of the Wilson President Wilson, as treated by Dr. Blum, is a high minded, compulsive individual who moralizes and personifies issues. Wilson did not have the ability to distinguish between a legitimate argument and a personal insult. He was pointed out during the Mexican dispute when Wilson made a personal issue out of a political one. However, Wilson had several good

of which the above statement answers. Investigation of the matter is now under way, but no definite action has been taken since there have been no formal complaints. However, any incidents involving injury to a student or to his scholarship, e.g., kidnapping before a quiz, will receive action by Judcomm. It is expected that "rivalry" will reach a peak between now and Field Day; while action on much departing and so forth, will be futile, the '59 Muglift may result in some "serious trouble if someone is hurt there." The Sophomores are warned to be careful, for the Muglift could be banned in the future, if anything should happen.

If action is taken, the procedure will follow this general pattern. Judcomm is not a court of law, and therefore does not adhere strictly to courtroom procedures. Whereas a jury is kept from all outside influences and only considers the direct facts, the Judicial Committee first discusses the case with the defendant, considers the man's personality, and examines all extenuating circumstances. The decisions of the group are made, on the whole, for the benefit of the individual, even though he may not see it that way at the time. If the defendant is found guilty, the punishment will be either probation, or, in the case of a serious offense, expulsion from the Institute. However, while Judcomm has the power to put a man on probation, it can only recommend expulsion to President Killian through the Faculty Committee on Student Discipline. The recommendation is usually followed. Judcomm's reaction to the question, part

Selective Service Deferment Test Will Be Offered Here November 15

The Selective Service System is offering on November 15, 1956, the first College Qualification Test for the present academic year. The deadline for application is October 30th. Applications are available in Room 14-S136, Headquarters, Advisory Committee on Military and Selective Service. All students who are eighteen and have registered with the Selective Service System are eligible to take the test. It will be greatly to the advantage of eligible Freshmen to take their first examination be-

cause the Administration at MIT is cancelling Freshman classes during the morning of November 15th. It is also an advantage to have your test score as soon as possible and those taking the November test will be able to ask their Local Boards for their test score during the Christmas vacation.

Students who wish to be deferred under the provisions of the Selective Service must take one of the College Qualification Tests and receive a score of 70 or higher or be at a certain level scholastically as a full-time student (42 hours for freshmen; 45 hours for all other students). It is important that each student know his own test score, which may be obtained by asking the Local Board personally. This information is not supposed to be given to anyone else and will not be available until at least a month has passed after the test is taken.

Other Criteria Possible While a test score of 70 or higher may be the criteria by which a student is deferred, a second-year student may pass the test or have been in the upper one-half of his class during the preceding academic year; a third-year student may pass the test or have been in the upper two-thirds of his class during the preceding academic year; and a fourth- or fifth-year student may pass the test or have been in the upper three-fourths of his class during the preceding academic year.

Forms 109, giving class standing based on work of previous year, not cumulative rating, must be filled out early each spring term by students desiring Class 2-S deferment. These are not filed automatically—upon personal request only.

Tour And Television Strong Possibilities For Tech Show '57

On Monday, Mike Intrilligator '59, Co-Company Manager of Tech Show '57, announced that the dialogue and music for this year's show are underway and the cast is presently being selected. He further stated that production may be extended by television coverage and by placing the show on the road.

At present, the first two scenes of the show are nearly complete. Musical Director Mort Achter '59 and Script Writers Bob Slott '58, Phil Pearl '58, Vic Teplitz '57, and Gerry Marwell '57 added that this year's show will follow a definite plot.

Final Try-outs This Week

Preliminary try-outs were conducted last week at which over sixty boys appeared. Final try-outs this week should determine the leads. Gus Solomon '59 and Warren Moon '58 will assume two of the leads. Announcement of the other major parts will probably be made next week.

Although not yet definitely determined, Mort Achter announced the possibility that Tech Show '57 may be televised as a part of the program *Wide, Wide World*. He also added that the production may be taken on tour. The extent of such a tour is not determined.

There are still some parts available in the chorus. Any men interested, should contact any one of the following for information: General Manager Norm Peterson '57; Co-Company Managers Herb Schwartz '57 and Mike Intrilligator '59; Musical Director, Mort Achter '59; or Production Manager Terry Meyer '58.

Ban At Least Some H-Bomb Tests, Say MIT Physicists

Virtually every member of the Physics Department here at the Institute—including Professor Weisskopf—is in favor of some kind of ban against American Hydrogen Bomb tests, according to a report by two MIT physicists.

The main point of contention within the department concerns what the extent of this ban should be. Professor David H. Frisch and Dr. Louis S. Osborne are preparing a compromise plan which they hope will be satisfactory "to the Democrats, the Republicans, and the Russians." Their plan would call for an end to all testing of "super" H-bombs, those over 100 kilo-tons (of TNT) in destructive force. Bombs of smaller size would still be tested.

Dr. Osborne emphasizes that to talk of banning bomb tests by no means implies banning tests on all sizes and types of bombs.

Interest in how scientists feel about ending bomb tests stems from a statement issued last Sunday by ten Cal Tech nuclear scientists supporting Adlai Stevenson's proposed ban on H-bomb tests. Since then, scientists in several other institutions across the country have added their assent to Stevenson's proposal. Last Monday night, Dr. Osborne, who is Director of the MIT Synchrotron Laboratory, and Dr. Roy Weinstein, also at the Synchrotron Lab., voiced their support of the ban on a local radio program.

Although these two scientists were called "MIT experts" in the Boston papers, Dr. Weinstein stated that his ultimate conclusion to favor a ban is not based on his scientific knowledge. "Technical facts alone are insufficient evidence on which to make any conclusion," he noted, "because on this basis a fair case can be made for each side."

Dr. Weinstein's major reason for supporting Mr. Stevenson's proposal is that it would give this country new "prestige" and would provide "a break in the now-stalled disarmament negotiations."

Assistant Chancellors Announced; Posts Taken By Floe And Kispert

Appointment of Carl F. Floe and of Malcolm G. Kispert as Assistant Chancellors of Massachusetts Institute of Technology was announced today by Dr. Julius A. Stratton, Chancellor.

Dr. Floe is Professor of Metallurgy and since 1952 has served also as Assistant Provost. Mr. Kispert, a graduate of the Department of Aeronautical Engineering, joined the staff of the President in 1946 to assist Dr. Karl T. Compton, and since 1952 has been Executive Assistant to President James R. Killian, Jr.

"The establishment of the Assistant Chancellors marks another step in our effort to keep pace administratively with the rapid growth and expanding obligations of the Institute," said Dr. Stratton. "Both Dr. Floe and Mr. Kispert have had long experience in academic and administrative affairs at MIT. They have gained through this association an extraordinarily wide and intimate acquaintance with our faculty and staff, and enjoy the esteem of their colleagues for unfailing skill and understanding in dealing with Institute affairs. I feel most fortunate to have their support in fulfilling the duties of my office."

"Dr. Floe will represent me on all matters relating to research and will provide the necessary coordination with the Vice President for Govern-

ment negotiations."

Dr. Weinstein cited two main technical arguments for ending Hydrogen Bomb tests. The first pertains to radioactive fallout, its immediate and its genetic effects on the population. "For each megaton of force in the bomb, there will be several hundred deaths throughout the world caused by radioactive fall-out. These deaths would occur over about the next ten generations. About these statistics, there is now no disagreement among scientists," he said. (A large H-bomb has about ten megatons of force.)

The second point concerns the impetus which bomb tests give to nuclear research. "This idea of impetus," says Dr. Weinstein, "is one of the weakest points which the supporters of bomb tests have. It is 60% hogwash, 30% reality, 10% for the newspapers." Theoretical re-

Dramashop Presents 3 One Act Dramas In Kresge Tonight

This evening the MIT Dramashop will present the first in this year's series of student-produced one-act plays. This is a continuation of last year's "Evening of One-Act Plays" series, which were so well received. As was the case last year, these plays are both student-directed and produced. The admission is free and after the two one acts there will be a critique and coffee hour for any of the audience that wish to attend.

The two plays to be given are, "This Property is Condemned", by Tennessee Williams, directed by Charles Spangler, and "Another Way Out" by Lawrence Langner, directed by Ellery Stone. The two plays will be given tonight only. The curtain raises at 8:30. They will be given in the Little Theatre, Kresge Auditorium.

mental and Industrial Relations, and with the Division of Sponsored Research.

"Mr. Kispert will assume management of the Budget of the Institute. In this he will work closely with the Vice President and Treasurer to assure the most prompt and effective use of these funds in the interests of the academic departments."

Dr. Floe received degrees of bachelor of science and master of science at Washington State College in 1930 and 1932. MIT awarded him the degree of doctor of science in metallurgy in 1935. He served as an instructor in metallurgy at Washington State College from 1930 to 1934 and as assistant professor from 1935 to 1936. In 1936 he joined the faculty of the University of Notre Dame and three years later returned to MIT. He became an associate professor in the Department of Metallurgy in 1942, executive officer of the department in 1943 and a full professor in 1950.

Mr. Kispert entered MIT in 1940. He enlisted in the United States Navy in 1942, continuing his studies in uniform under the V-12 unit at MIT, and received the degree of bachelor of science in January, 1944. He then served as an aviation engineering officer in the Pacific. Returning, he took graduate work in aeronautical engineering at MIT.

The Tech

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reviews

"The beauty and inspiration of music must not be restricted to a privileged few but made available to every man, woman and child." So says Leopold Stokowski, conductor of the Philadelphia Orchestra which furnishes the music for the motion picture "Fantasia," currently playing at the Beacon Hill Theatre. Through a series of eight musical compositions blended with the fantastic meanderings of Walt Disney and Company, the film strives to achieve Stokowski's stated purpose—music interpretation for the millions.

This movie, produced in 1940, represents a completely new medium of entertainment. Turning the tables on the old cinema formula of finding suitable background music to go with a given set of pictures, the Disney artists listened to the music, then recorded, organized and skilfully colored the images which the music suggested to them.

Several unique problems had to be solved in making such a picture. On the one hand, Disney had to avoid an unpopular and tedious abstruseness; on the other hand, the music itself had to retain the focus of attention lest it become merely an excuse for the visual images. Moreover, the wide range of selections called for many different types of interpretation, ranging from the romping serenity of Bach's "Pastoral Symphony" to the clash and clamor of Moussorgsky's "Night on Bald Mountain."

The film achieves its greatest successes with pleasantly fantastic interpretations. For example, the original story of the Nutcracker Suite is discarded, and the artist's imagination refreshingly gives the suite a setting in nature. Here Disney is really in his element, with dewdrop fairies flying about creating frost patterns where cobwebs formerly were, animated mushrooms hopping gleefully to the tune of the "Chinese Dance," and happy flower blossoms flitting around in a maze of gorgeous color.

The film meets with a lesser degree of success in the more serious works, such as Stravinsky's "Rite of Spring." By giving the theme an evolutionary twist, the piece loses some of its inherent discord and abruptness. While the tone of violence is admirably set in a scheme of brilliant, contrasting colors, the clear, sharp lines and well-defined objects on the screen tend to detract from the chaotic nature of the piece. Moreover, the music seems incidental to the action in this case, thus obscuring the main object of the film.

Disney dabbles in the abstract only with Bach's "Tocatta and Fugue in D Minor." Here he concentrates on visual images of individual notes and phrases. Although the abstractions border on monotony in places, some images are quite interesting, such as that of a glowing meteor-like object whizzing through Gothic arches. Perhaps unfortunately, the other interpretations are much more concrete.

With this "music for the millions" purpose, the picture is naturally restricted in its range of interpretation. However, it furnishes an interesting and delightful evening's entertainment.

—Fred Epstein, '57

after hours

Friday, October 19

Mixer: All Techmen are welcome at a mixer sponsored by the Hamilton A-Hall of Brandeis University at Waltham, Mass. There will be entertainment and refreshments for free. Starts 8:00.

Dance: All Tech students are invited to a dance at Endicott Junior College this Friday in Reynolds Hall at 8:30 P.M. Endicott is located in Beverly, Mass.

Mixer: Music by the King's Men will be featured at the Austin Mixer sponsored by the Bouve. The place is the Bouve Building at Tufts College, and the time 8:00-12:00.

Acquaintance Dance: The Athletic Association of Lasell Junior College, Auburndale, Mass., is sponsoring an acquaintance dance in Winslow Hall this Friday at 8:00 P.M. Admission \$.50. 11:30 curfew.

Dance: The Riverway House of Wheelock College is giving an acquaintance dance Friday the 19th. Wheelock over on 162 Riverway Road, Back Bay. 8:00-12:00.

Saturday, October 20

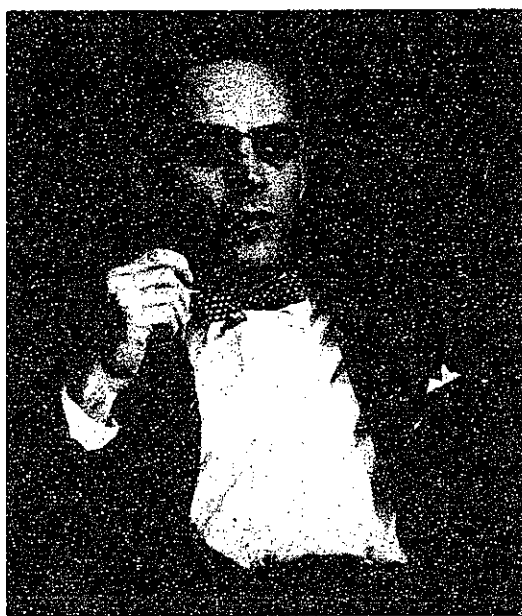
Hop: There will be a Harvest Hop at Fisher Junior College, Saturday, October 20, 8:00-12:00 P.M. It will be held in the Ballroom of Fisher College.

Professor Blum paced the floor as he talked about his new book, *Woodrow Wilson and the Politics of Morality*. "Essentially my analysis of President Wilson is neither black or white—it's more a gray. Wilson was a tragic figure because he did not live with his times or himself. His personality was probably influenced a great deal by his southern culture and Calvinistic upbringing. He tended to moralize and personalize issues. Wilson, however, had one great asset—his ability to convey himself to the American public. His philosophy of the dignity of man has deeply influenced his and our times."

The telephone rang and Professor Blum answered. During his conversation, we had time to look at the pictures on his wall. There was one of "T.R." as Dr. Blum referred to him; on the opposite wall there was one of F.D.R. He explained later that, unfortunately, Morgan Memorial did not have a picture of Woodrow Wilson. During his telephone conversation Professor Blum displayed his character or vitality. We noticed that at one instant he was carefully analyzing a manuscript and the next he was joking about an event which had happened that day.

After hanging up the phone, Professor Blum turned and smiled. "You are probably

profile



Professor John M. Blum

wondering about this large Adlai Stevenson button I am wearing and about the Democratic posters around my office. I became a Democrat in 1932 when I was looking for what you might term a 'personal salvation.' As you know, the depression was at its height during this time. I even did work on W.P.A. After the depression I was an advocate of

the need for the United States to get into the second World War. I still believe in the policies of a social service state as advocated by the Democratic Party. The Republicans have come closer to this idea but they are still dominated by big business men. No matter what they may say this is still true.

"I certainly hope the Democrats can win this election year but my hopes for Stevenson have been diminishing since October 1. He doesn't seem to put his personality or his ideas across to the industrial man especially in the Northeastern states. Of course, I don't mean to give up hope for the Democrats—Adlai still has a strong chance."

Professor Blum stopped for a while until we asked him a question about his life. "I received my doctorate from Harvard and then came to MIT in 1948. I guess that makes me an old timer around here. I am married and have three children. Most of my books deal with the Woodrow Wilson and Teddy Roosevelt era. At present, however, I am working on a book about Henry Morgenthau Jr. You know he was Secretary or Treasurer during F.D.R.'s administration. "You must excuse me now for I have a class to attend."

As we were leaving Professor Blum invited us to come back and talk again. We were quick to accept.

Graduates

in Engineering... Physics... Mathematics

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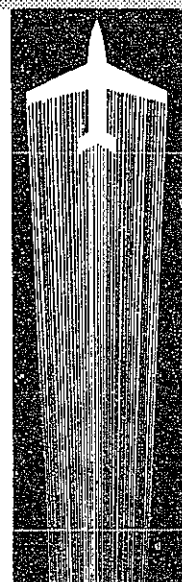
You are invited to consult your placement officer for an appointment.

Separate interviews will be given for each division.

Both divisions of Lockheed are engaged in a long-range expansion program in their fields of endeavor.

California Division activities in Burbank cover virtually every phase of commercial and military aircraft. Seventeen different models of planes are in production, including cargo and passenger transports, high Mach performance fighters, jet trainers, radar search planes, patrol bombers.

B. S. graduates who wish to attain a Master's Degree will be interested in the California Division's Masters-Degree Work-Study Program. In the program, participants achieve their M.S. while working concurrently on Lockheed's engineering staff.



At Lockheed in Marietta, Georgia, new C-130A turbo-prop transports and B-47 jet bombers are being manufactured in the country's largest aircraft plant under one roof. The division is already one of the South's largest industries. Moreover, a new engineering center is now in development as part of the division's expansion program.

In addition, advanced research and development are underway on nuclear energy and its relationship to aircraft. A number of other highly significant classified projects augment the extensive production program.

This broad expansion program is creating new positions in each division. Graduates in fields of: Aeronautical Engineering, Electrical Engineering, Mechanical Engineering, Mathematics and Physics are invited to investigate their role in Lockheed's expansion.

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California Division, Burbank, California • Georgia Division, Marietta, Georgia

NSA Foreign Committee Relations Forms Policy On Varied Issues

by William Cramer '58

Though the expressed opinion from some quarters is that the National Students Association is a meaningless organ in as far as it pretends to represent and influence domestic student opinion, it does perform other functions which have so far been little publicized.

Along with the rest of the NSA, their Committee on International Relations held their annual policy meeting last August.

As its name implies, the purpose of the committee is to formulate a national student policy which can be used to influence international relations on the student level. The committee feels that it can help and should attempt to free the educational and academic sphere from the vagaries of foreign policy.

SophMugliftTonight; Will Frosh Be There?

Tonight, Rockwell Cage will ring with the traditional songs, cheers, and other unpredictable noises of the Sophomore Muglift.

This annual beer-drinking party for members of the Class of 1959 will be novel because of the entertainment planned for the evening. A jazz group, composed mostly of members of the class sponsoring the affair, will provide background music for the festivities.

One element which may be lacking is the entertainment which is usually provided by visiting freshmen, due to the anti-hazing ruling. However, opinions heard on campus seem to indicate that the party tonight will not be without some action on the part of the Class of '60.

tions on the student level. The committee feels that it can help and should attempt to free the educational and academic sphere from the vagaries of foreign policy.

Specific actions taken at the meeting include the following: The committee backed the students of Cyprus in their fight for academic freedom, but did not align itself with any of the governments involved; it condemned the government of Nicaragua for trying to check independent student organization by closing all universities except one; a declaration was passed which supported the students of Czechoslovakia in their fight for academic freedom; it rejected an invitation to send a delegation to Red China, for this would be contrary to general United States foreign policy; the committee commended those colleges who are participating in an international exchange of students; it authorized continuation and expansion of a foreign students leadership project. This project, which operates on a Ford Foundation grant, provides an opportunity for leaders in student government from other countries to study here and observe the mechanisms of our student governments. Because it felt that this hindered student exchange, the committee took a stand against the McCarran-Walter Act, which has a provision that all visitors to this country must be fingerprinted. A resolution was passed backing the World University Service, which tries to stimulate student organization abroad. The group also suggested expansion in hostel activities.

30 JP Tickets Left; Contest Ends 5 P.M. Sales Successful

After the mammoth stand in Rockwell Cage and the general jockeying for tables there still remains a chance for last minute tickets. Junior Prom committee still has on hand 30 tickets for a total of 5 tables in the foyer adjacent to the main ballroom. This is the last chance to attend the Junior Prom of 1956 with the music of Les Elgart and his band. These tickets can be purchased in building 10 or through Richie Coryell at Baker House, Extension 395.

The Dartmouth Indian Chiefs are engaged to offer a preview of their Saturday night performance during intermission. For this second night performance at the Continental Hotel 15 tickets are still available along with the JP tickets.

Entries for the Junior Prom contest will definitely close this afternoon at 5 p.m. Qualifications for entry stipulate the date of a junior attending the Prom. Entry pictures will then be taken and displayed on Monday, Tuesday and Wednesday in building 10. During these three days the voting of the Junior Class will decide the new Queen.

With these announcements the main work of the Junior Prom has been completed and the stage is set for the "big week-end".

NATIONAL EXAMINATION

One-day National Teacher Examinations will be given on Saturday, February 9, 1957. For information and application, write National Teacher Examinations, Educational Testing Service,

Terzaghi To Lecture Here; Pioneer Of Soil Mechanics

Dr. Karl Terzaghi, international authority on soil mechanics, has been appointed lecturer and research consultant in soil mechanics for the current academic year at the Massachusetts Institute of Technology, it was announced last night by Dean C. Richard Soderberg of the School of Engineering at MIT.

Professor emeritus of the practice of civil engineering at Harvard, Dr. Terzaghi is the founder of the modern science of soil mechanics, a field of great importance to foundation engineering. He is president of the International Conference on Soil Mechanics and Foundation Engineering.

"Great Pioneer"

"Dr. Terzaghi is one of the great pioneers in civil engineering," said Dean Soderberg in announcing the appointment, "and although he will be at MIT on a limited basis only, I am sure his presence here will be an inspiration to students and staff alike."

Dr. Terzaghi previously taught at MIT in the late 1920's. He developed at MIT the first courses in soil mechanics to be given in the United States.

Dr. Terzaghi has received numerous awards and prizes. These include three awards of the Norman Medal (American Society of Civil Engineers); the Desmond Fitzgerald Medal and the Clemens Herschel Award of the Boston Society of Civil Engineers; the Brown Medal of the Franklin Institute; and the New England

Award of the Engineering Societies of New England.

Born in Prague, Czechoslovakia, on October 2, 1883, Dr. Terzaghi graduated from the Technische Hochschule at Graz, Austria, in 1904, and in 1911, received a doctor's degree in Civil Engineering there.

In 1918, he went to Robert College in Istanbul as acting head of the Department of Civil Engineering. During the period from 1916-1924, he acted as consulting engineer on various difficult foundations and water supply projects. From 1925-1929, he was on the faculty at MIT.

He then served as professor at the Technische Hochschule in Vienna from 1929-1938. During these years he was a consultant on a hydroelectric development in northern Russia, various irrigation projects in Central Asia, on rockfill dams in Algiers, and on numerous other structures in the Eastern Hemisphere.

Lectured at Harvard

Harvard University invited Dr. Terzaghi to lecture on Soil Mechanics in 1936. In 1938, he became a lecturer in the Harvard Graduate School of Engineering, and in 1947 was appointed Professor of the Practice of Civil Engineering. He has also served as lecturer and research consultant at the University of Illinois.

An Honorary Member of the American Society of Civil Engineers and of the Boston Society of Civil Engineers, he is a former James Forrest Lecturer for the British Institute of Civil Engineers.

George Lincoln asks:

What do metallurgists do in a chemical company?



CHARLES L. SMITH, JR., received his B.S. Ch.E. from V.P.I. in 1943, served in the Navy as an engineer officer, and joined Du Pont's Engineering Department in 1946. Since then, he has advanced steadily through a number of interesting assignments at various Du Pont plants. He was recently promoted to manager of the Technical Section of Du Pont's Pigments Department.

Metallurgists and Metallurgical Engineers can find some of Charlie Smith's challenging new problems described in "Engineers at Du Pont." For a free copy of this booklet write to E. I. du Pont de Nemours & Co. (Inc.), 2521 Nemours Building, Wilmington 98, Delaware.



BETTER THINGS FOR BETTER LIVING... THROUGH CHEMISTRY
WATCH "DU PONT CAVALCADE THEATER" ON TV



GEORGE M. LINCOLN, JR., expects to receive his B.S. in metallurgical engineering from Lehigh University in 1957. George was vice president of his junior class, is active in sports, and a participant in many other campus activities. He's starting his employment investigations early, for he feels that the selection of an employer is one of the most important decisions in a man's career.

Charlie Smith answers:

They have an almost endless variety of interesting problems to face, George. As a student of metallurgy, you know that about two-thirds of all known chemical elements are metals. Many of them are revealing valuable new applications, when highly purified on a commercial scale. Du Pont is greatly interested in several metallic and semi-metallic elements.

My own experience at Du Pont ranges from work on titanium pigments, to metallic titanium production, and to the ultra-pure silicon used in transistors. You can appreciate some of our metallurgical problems when I point out that impurities in transistor silicon have to be below one part in 100 million. That's equivalent to one pound of impurities distributed through a train of ore cars twenty miles long!

Some of our metallurgists carry out fundamental research on new metals, and, in the development stage, they frequently operate pilot plants for producing them. Other metallurgists study problems relating to engineering materials used in construction, carry out research on intergranular corrosion, or investigate fatigue relationships encountered in dynamic, high-pressure operations.

You'll find many challenging opportunities in every phase of metallurgy at Du Pont, George.

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EMBASSY

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Swimming Club Organized At MIT; To Sponsor Interclass Competition

MIT's newly organized Swimming Club, formed on October 4, aims to promote swimming as a sport at Tech. It will also serve to expand the benefits offered to participants in this sport.

The club will sponsor an Institute Swimming Championship Meet to be held on the December 1, 2 week-end. The Interclass Swimming Trophy will be awarded to the highest scoring class; individual champs will be determined for each event. This meet will feature full intercollegiate events instead of the limited schedule employed in Field Day and Intramural competition. All students, faculty

members, and graduate students may participate in this all-Institute event.

This spring the Club hopes to sponsor a water polo team. New York Athletic Club, Yale, and the Quonset Tigers compete in this sport in the Northeastern area. Participation on this water polo squad would be open to all undergraduate and graduate students.

At the first meeting of this new organization, a constitution was unanimously approved. An Executive committee composed of five natators was elected. Harry Duane '57, a star Tech swimmer, was elected to the presidential post of the Swimming Club. Paul Cotter, another Senior natator, was given vice-presidential duties while Bob Jantzen '57 was elected Senior member-at-large. Al Johnson '58 took over the duties of secretary-treasurer while Bill Veek '58 was elected the other member-at-large.

The members also discussed the methods by which they could aid the organization and administration of the Field Day and Intramural Swimming Meets.

Tech's newest activity feels that it should be able to widen interest and utilize the potential of the sport of swimming at MIT, and at the same time bring the participants in this sport closer together.

"Dirty" Play Cause Of Intramural Move

Meeting in Litchfield Lounge last Wednesday night, the intramural council put into the intramural hand-book of rules, a means of enforcing team and individual sportsmanship. Prior to this meeting the only time in which a player could be penalized other than on the spot, was in the case of unsportsmanlike conduct towards an official. The new ruling, designed especially for football, provides that the intramural council may suspend a player and/or his team from competition in any or all sports for a period up to a year, for unsportsmanlike conduct toward members of the opposing team.

Several cases of rough play in intramural football have developed in the past few weeks, the worst of which resulted in the loss of several teeth for one player.

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4 Games Scheduled This Weekend

By next Sunday evening four more teams will have been eliminated from intramural football play. Sunday's games decide the winners in the consolation rounds of each of the leagues and these winners will play the teams presently in first place the following week-end.

In League 1 ATO is pitted against DU for the second time this year. In their earlier contest the DU's took an easy 20-0 contest.

League 2 matches Theta Chi against surprising Phi Kappa Sigma. On opening day the Theta Chis took a close 7-0 decision from the Phi Kappa Sigs who have since won three

straight. The winner faces Phi Delta for the title.

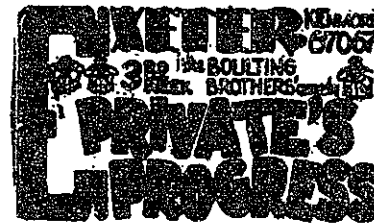
Sigma Nu and Sigma Chi provide what should be the closest game of the day as they meet for a crack at the Betas for the League 3 title.

Biggest surprise of the year, Sigma Alpha Mu faces Delta Tau Delta for the League 4 spot. The Delts lost a close one last week while the Sammys were winning two thrillers.

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Here—2:00

Soph Football at Andover Jv 2:00

Frosh and Varsity Cross Country
at New Hampshire 2:00

Hexagonal Sailing Meet at Tufts

Sunday

Sailing—Nevins Trophy at Kings
Point

Tuesday

Soccer vs. Harvard—Here 4:00

Frosh Soccer at Harvard 4:00

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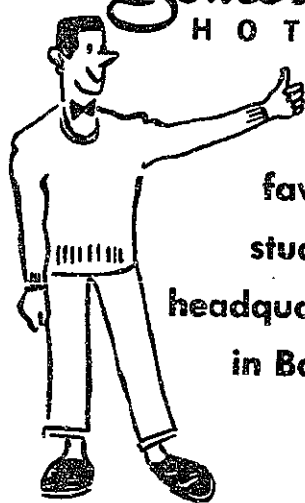
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Advanced Study Program

Graduates in Physics, Electrical, Aeronautical and Mechanical Engineering are invited to contact their Placement Officer regarding the Advanced Study Program which enables students to obtain their M.S. and Ph.D. Degree while employed in their chosen field.

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The complexity of missile systems research and development has created a number of positions for those completing their M.S. and Ph.D. degrees. The positions carry immediate responsibility commensurate with the advanced academic training and experience required.

Representatives of the Research and Engineering staff will be on campus

Monday, October 22

Tuesday, October 23

You are invited to consult your Placement Officer for an appointment.

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beaver barks

by F. Thomas Bond '58

The next two week-ends will see the completion of league play in intramural football. Barring possible playoffs, by the day after Field Day four of the twelve teams remaining in action will have won the right to fight it out for the school championship. For these teams, with as many as four games already under their belts, the importance of winning reaches new heights, for unless the league is won, all other victories are almost worthless. It is this fact that makes the upcoming games the best of the year, but unfortunately, perhaps also the "dirtiest".

There are few that will deny that MIT "touch" football is one of the toughest sports in existence. Without any form of protection, competitors enter into the line play and downfield blocking with little hesitation. This in itself leads to many a stiff body and sore arm, but strangely enough experience has shown that it produces few injuries. The teams that play all out are the teams with few casualties; it is only in the cases of letting up or "dirty" play that accidents happen. It is up to the individual to make sure that at no time he makes himself prone to injury by easing off; it is the job of everyone to make sure that not only the rules are upheld, but more important, the spirit of the rules.

At a meeting last Tuesday night, the Intramural Council was given the authority to ban an unsportsmanlike player and/or his team from intramural sports for a period of up to a year. It is good to have this power delegated; let us hope that it is never exercised.

In controlling a team's play, not just unsportsmanlike conduct is to be avoided, it is also important to avoid unintentional illegal blocks and tags. There is a purpose in stating that the blocker or tagger cannot leave his feet—at least half of the injuries resulting from intramural football can be traced to failure to follow this rule. As for weakening a man by "roughing him up", it's been shown time and time again that this backfires more often than not. Not only do penalties work against the guilty team, but also the spirit aroused in the opponents can often carry them to the point where they'll take a game they would have ordinarily lost. In the long run, however, these reasons for clean play are inconsequential in the face of the need of preventing injuries.

As mentioned above, winning in intramural football is very important. Yet it is certainly no more important that the very basis on which intramurals were founded, that of promoting enjoyment to the students through athletic competition. This may sound idealistic, but it's time it was put into practice.

CIVIL SERVICE EXAMINATIONS

The United States Civil Service Commission has announced a new examination for Student Trainee positions in the following fields: Architecture, Cartography, Chemistry, Engineering, Mathematics, Metallurgy, Meteorology, Oceanography, and Physics.

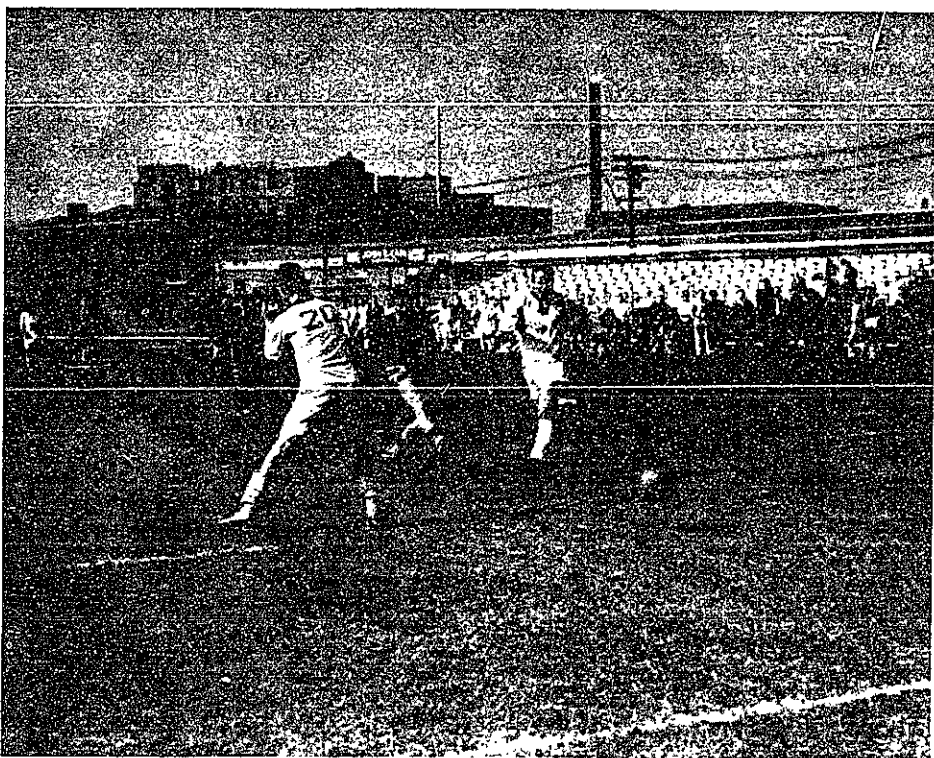
Information and application forms may be obtained from the U. S. Civil Service Commission.

Varsity, Freshman Soccer Teams Lose; Tufts And Andover Administer Shutouts

Tech's soccer teams were handed a double shutout last Tuesday, as the frosh bowed to Andover 2-0 on Briggs Field, and the Varsity was edged 1-0 at Tufts. This marked the first loss for the frosh in three games, and the third in four for the Varsity which has yet to play to its full potential.

The Tufts defeat went to a team which though a low underdog, went all out for the game and never let up for a minute. Tech's play, in contrast was sometimes disorganized and unspirited. The first period of the game went by scoreless with the ball being run up and down the field. By half-time the score was still 0-0 as both teams failed several times to capitalize on scoring opportunities. At the start of the third period, however, Tufts scored on a rush, with Lou Pineda getting the goal at 5:25. The score came when Tech goalie Rudy Segovia was out of the crease stopping a shot, and the Tufts offense was able to "gang up" on him. This score aroused the Tech offense somewhat, but Tufts became even more determined to reverse last year's score of 4-0.

Tech's offense led by Herb Johnson pressed hard in the final quarter, but was unable to get a shot past the Jumbo's net tender. This was the second game in a row lost by one goal, the other being to Amherst 2-1 last Saturday. The booters face a tough Harvard team on Briggs Field next Tuesday. Despite the record to date, a win over the Crimson would make any season a success.



The lineups:

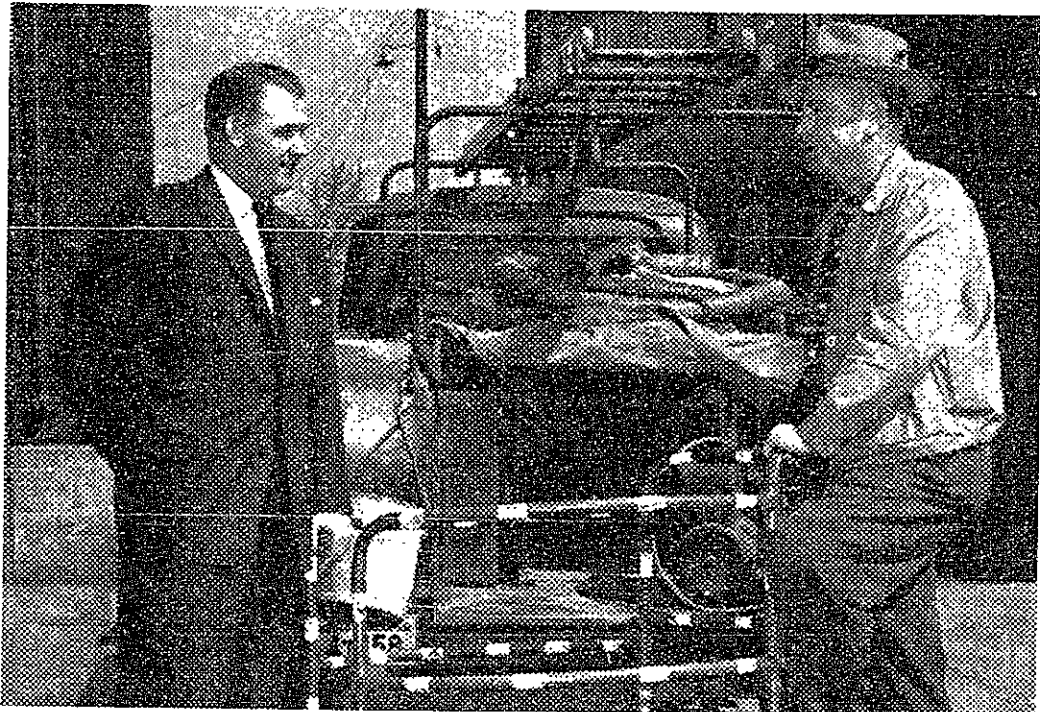
MIT		TUFTS
Segovia	G	Feinberg
Hohorst	RFB	Shaw
Brandt	LFB	Pineda
Sensenig	RHB	Higgs
Henriksen	CHB	Blum
Comerford	LHB	Benedict
Pinsuvana	OR	Hale
Warner	IR	Johnson
DeVal	C	Gibbons
Johnson	IL	Wolff
Hobart	OL	Kran

Score by periods:

MIT	0	0	0	0
Tufts	0	0	1	0

first period, but early in the second, Clark of Andover scored to culminate a powerful drive and shortly afterward Hubbard hit to make it 2-0. The second half saw Tech pour on the pressure, but at the same time Andover inaugurated a cautious, defensive game. Especially outstanding for the visitors was their goalie Phillips who made several difficult saves including one on frosh Viilu's dramatic angled head shot. Next Tuesday the '60 team will travel to Harvard for their fourth game of the year.

A Campus-to-Career Case History



Roger Lindblom (left) discussing a construction job with J. R. Young, Wire Chief of Huron, S.D.

"I'm learning more every day—and like it"

Roger Lindblom, B.S. in General Engineering, Iowa State College, '49, is today District Plant Superintendent for the 11,000 square miles of the Huron, South Dakota, district.

"The openings are there," says Roger, "and the telephone company trains you to fill them. I joined Northwestern Bell in 1950 and spent one year learning pole line and cable construction. This, plus short periods in other departments, gave me a good telephone background.

"My experience really grew when I became an installer-repairman, then a construction crew foreman, and, in 1952, Wire Chief at South Sioux City, Nebraska. There I was responsible for the 3500 dial phones that served the town.

In March of 1954 I went to Grand Island, Nebraska, to help supervise dial conversion projects in that district. Everything I'd learned to date came in handy on that job.

"A year later I went to Omaha on a staff assignment, and in March, 1956, I moved up to my present position.

"I head a group responsible for installing and maintaining Plant equipment in the Huron district. We supervise ordering and distributing supplies, and I'm responsible for personnel and employment. I work with other department heads in the administration of our district.

"Each assignment I've had has been broader than the last, and believe me, the more I learn, the better I like it."

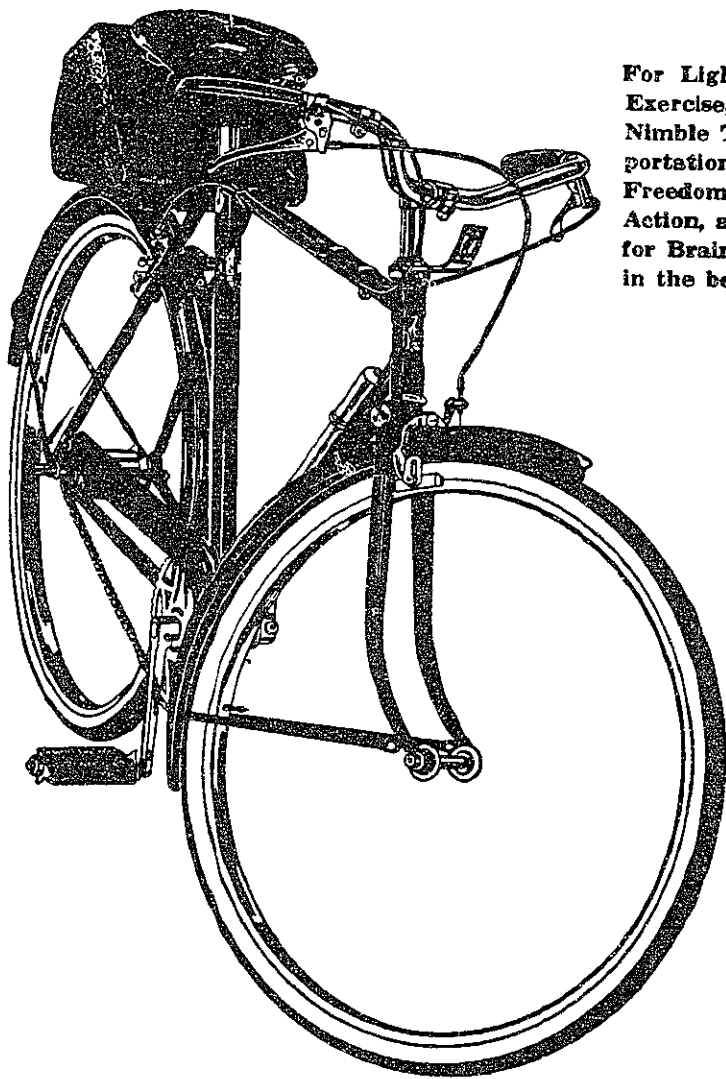
Roger Lindblom is one of many young men who are finding rewarding careers in Bell Telephone Companies, Bell Telephone Laboratories, Western Electric and Sandia Corporation. See your placement officer for more information on career opportunities in the Bell Telephone System.



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Van Doren Speaks Tomorrow To English Group In Kresge

The New England College English Association will hold its annual fall meeting tomorrow in Kresge Auditorium at the Massachusetts Institute of Technology, it was announced last night by Dr. Carvel Collins, professor of English at MIT and chairman of the committee on arrangements for the NECEA.

It will be the group's first meeting at MIT, a leader among technological institutes in broadening and extending required and optional programs in the humanities.

Plan Lounge Repair For Nov. Completion

Mr. William Mackintosh, of the office of the Director of General Services, stated recently that Talbot Lounge would probably be reopened before Thanksgiving.

The lounge, situated in East Campus, was ruined by fire at about five o'clock on the morning of the 12th of this month.

Mr. Richard Reece, who was one of the architects who planned the decoration this summer, is in charge of the redecoration. He is considering repainting the walls, though plastering one of the walls is also under consideration. No final decision has been reached. The furniture will probably be of the same type as was in the lounge before the fire.

Mr. R. Colin MacLaurin, Director of General Services, said that no estimate of the cost of redecoration had been made yet. "The Lounge will be open by Thanksgiving," he said, and added, "we hope."

Principal speaker at the morning session will be Professor Mark Van Doren, well-known educator, poet, critic, and author. His subject will be "Why Teach English."

The afternoon program will consist of a series of workshops covering the teaching of drama in American and European colleges, instruction in writing in General Education programs, the presentation of poetry in the classroom, problems of presenting literary materials to the television audience.

Professor Van Doren, who will give the main address, has taught at Columbia and at the New School of Social Research. He has contributed to and been literary editor of "The Nation," and has written a number of volumes of poetry.

H-BOMB BAN

(Continued from page 1)

search, he added, can come close to predicting the effects of a bomb blast.

Should another nation decide to test a bomb, after the U.S. has banned its tests, says Weinstein, we could detect, by seismographic or other means, any blast greater in size than the Hiroshima bomb. This is in contrast to the statement by Harold Stassen, in Kresge Auditorium several weeks ago, that nations could conceal their tests from the rest of the world.

Since, says Dr. Weinstein, even in the event that the U. S. banned some or all bomb tests, approximately ten per cent of the present research staff in this country would be required to keep the nation ready to resume tests if other nations did not follow our lead. In a two-year period, he said, this might put our research program about two months behind.

Cheney Open House Nov. WAS Function

The MIT Association of Women Students, at its October meeting Monday, made plans for meetings and additional social and service projects for the forthcoming year.

President Elizabeth Mertz '58, announced that the American Society of Women Engineers has invited any members of the AWS in the field of engineering to a luncheon to be held tomorrow in the Faculty Club. At this time the women undergraduate students will have the opportunity to meet and talk with women now working in the field.

The AWS will hold its first open function of the year. On Friday, November 2, beginning at 5:00 p.m., the organization will hold "open house" in the Margaret Cheney Room, 3-310. At this time the Coeds of MIT will extend invitations to the men of MIT to visit their "feminine retreat". Refreshments will be served.

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"Let's Take A Trip" Originates From Lab CBS Network Show Features Computers

The eyes of CBS-TV will be on MIT this Sunday. On that day, a network program, "Let's Take A Trip" will originate from the Bart Building, just over the railroad tracks on Mass. Avenue, where many computing devices are housed.

Acting as host for the show will be Dr. Vannevar Bush, '16, former professor and Dean of Science here. Last year he retired from his post as the President of Carnegie Institute in Washington, D. C., and at the present time has no official title. Also appearing on the show will be Professor Francis Bitter and Professor Jay Forester. The latter had much to do with the development of the "whirlwind" computer, and is now a professor of industrial management although he formerly taught

in the electrical engineering department.

The format of the weekly show is this: A boy and a girl are taken to a place of interest, and the show is built around this trip. On their journey to MIT most of the program will be concerned with various computers, but several stills and aerial views of the campus will be shown.

Such a program is not a last minute, impromptu affair; for three weeks Craig Gilbert has been in Boston writing the show, which will be MC'd by Sonney Fox.

At the present time it is not known whether WNAC-TV will carry the show, which runs from 12:00 noon to 12:30 p.m. "Let's Take A Trip" is, at present, a sustaining show, i. e., it has no sponsor.

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the letters
in each
puzzle
to form
the name
of an
American
College or
University

PUZZLE NO. 10



CLUE: This western university, boasting a campus of 9,000 acres, was named for an American railroader and U. S. Senator, who endowed it as a memorial to his son. Herbert Hoover was a famous graduate.

ANSWER _____

Name _____

Address _____

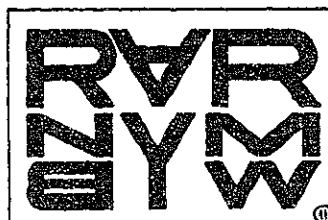
City _____

State _____

College _____

Hold until you have completed all 24 puzzles

PUZZLE NO. 11



CLUE: Opened by Quakers in 1885, this nonsectarian college for women is in a residential suburb of one of America's largest cities. An early president was famed educator and feminist Martha Carey Thomas.

ANSWER _____

Name _____

Address _____

City _____

State _____

College _____

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PUZZLE NO. 12



CLUE: This midwestern college is named for an American clergyman and abolitionist, to whom Horace Greeley said: "Go West, young man, Go West!" It is located in a town of the same name.

ANSWER _____

Name _____

Address _____

City _____

State _____

College _____

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